BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of work:Improvements to drains of 4th Cross road of Shabarinagara in Byatarayanapura in ward no.07, Byatarayanapura

PCODE:- P1771

Est Cost : 25.00 LAKHS

Name of Work:- Improvements to drains of 4th cross road of shabarinagara in ward No.07 Byatar anapura

Estimated Cost:- 25.00 akhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Basic Rate:	cum	130.00						
	Area Weightage @ 6%		7.80						
	Total		137.80						
	4th cross		2	167.00	0.95	0.85	269.71		
	Over burden earth		1	25.00	2.00	0.45	22.50		
					TOTAL		292.21	137.80	40266.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.13, It.4.3)								
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		5408.12						
	RCC DRAIN-BOTTOM								
	4th cross		2.00	167.00	0.95	0.15	47.60		
					TOTAL		47.60	5408.12	257400.00
3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Basic Rate:	cum	5659.00						

	Area Weightage @ 6%		339.54						
	Total		5998.54						
	Bottom								
	4th cross		2.00	167.00	0.95	0.15	47.60		
	Side Wall								
	4th cross	**2x2**	4.00	167.00	0.15	0.45	45.09		
							92.69	5998.54	555975.00
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
	Reinforcement for side wall						92.69		
			At 55 Kg % per cum				**5.10**	75223.96	383468.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
	SIDE WALL								
	4th cross	2x4	8	167.00		0.45	601.20		
							601.20	483.36	290597.00
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	4th cross		557		0.60	0.90	300.78		
							300.78	2100.00	631638.00

7	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19								
			4	1.50	--	--	6.00		
					TOTAL		**6.00**	5976.28	**35857.68**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						
8	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		4	0.28		0.60	0.68		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.68**	987.62	**671.58**
9	Providing 40mm and down size nominal size (Pg No.II.Item No.25)								
	For Pit		4	0.28		0.40	0.45		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.45**	1091.43	**491.14**
10	Providing 20mm and down size nominal size (Pg No.II.Item No.28)								
	For Pit		4	0.28		0.40	0.45		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.45**	1091.43	**491.14**
11	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)								
	For Pit		4	0.28		0.30	0.34		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**0.34**	1054.29	**358.46**
12	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
			75				75.00		
					TOTAL		**75.00**	84.75	6356.25
13	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				292.21	94.34	27567.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
14						**Sub Total**			2231137.26
15				**Add 12% GST charges**					267736.47

16				Miscelleneous charges			1126.27
17						Total	2500000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Administrative Approval

Accorded For RS 25 Lakhs only
Head of A/C P1771
.....28..... Dt:09.05.2019

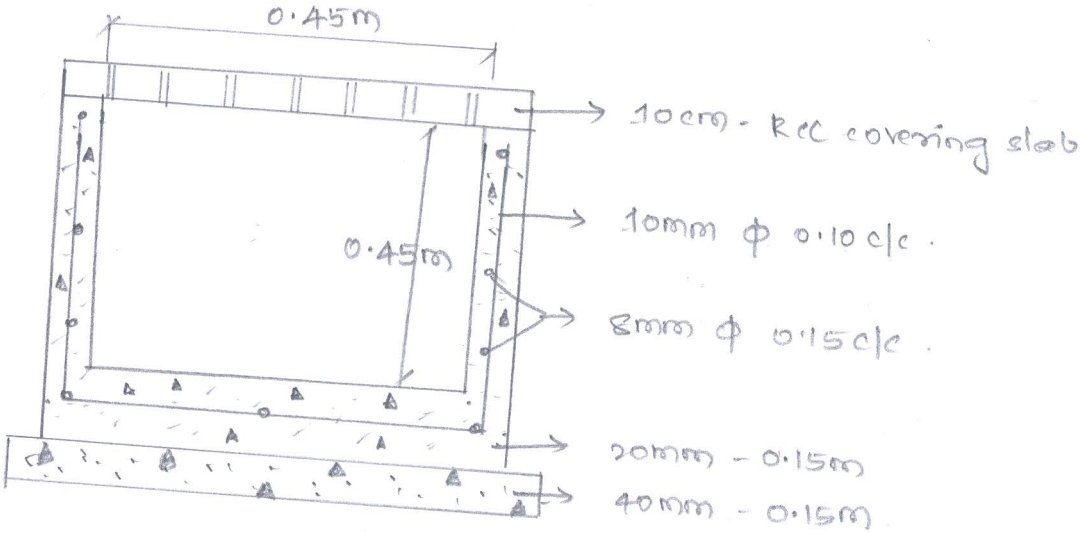
CE (YNK)

Technical Sanction

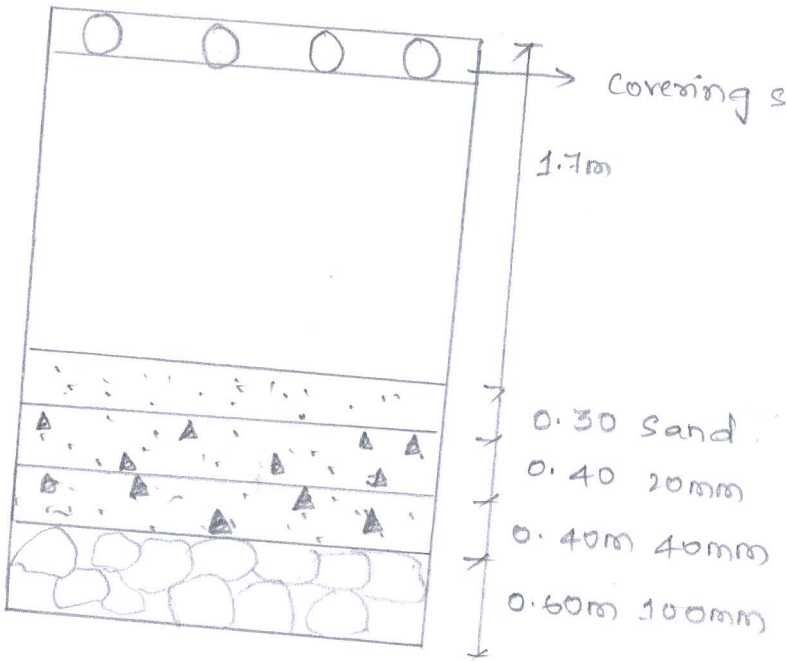
Accorded For RS 25 Lakhs only
Head of A/C P1771
CER NO :.....13..... Dt:09.05.2019

TA CE (YNK)

Name of work: Improvements to drains of 4th cross road of Shabarinagara in ward no. 07 Byatarayanapura.



CROSS-SECTION OF RCC DRAIN

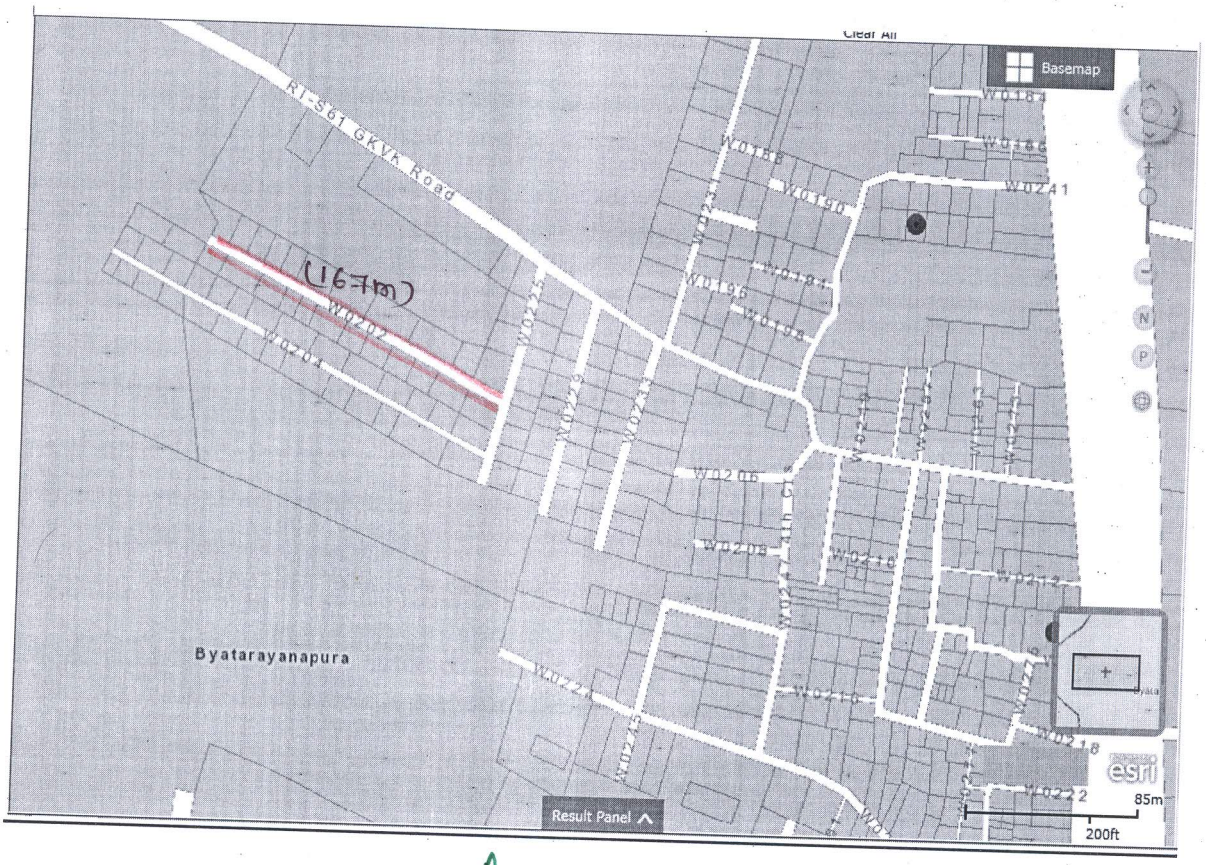


CROSS-SECTION OF RWH-UNIT.

Abhi Y.N.D
AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name of work:- Improvements to drains of 4th Cross road of Shabarinagara in Byatarayanapura in ward no.07, Byatarayanapura



AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

DATA RATE FOR DRAIN COVERING SLAB (1.20 X 0.60)

(R.C.C Precast Slab) + desc

A	KSR8 4.5.2 Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded metal coarse aggregates @ 0.87Rcum and fine aggregates @ 0.459cum with superplasticiser 6238s confirming to IS9103-1999 reaffirmed 2008, ingredients mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintes, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pilars, posts, structs, buttresses, string or facing courses, parapets, coping bed blocks anchor blocks, plain window cills, fillets, etc, including cost of all materials, labour HOM of machinery, curing complete as per specification Specification No: KBS 4.1, 4.6 (P:13/4.11 PW,P & IWTD,More Circle SR-2014-15) (RCC 1:1.5:3)								
	cement concrete 1:2:4								
	Cover slab size (1.80 X 0.60)								
		1	1.20	0.60	0.10	0.072	6065.28	436.70
	Basic Rate	5616.00						
	Add 8% Area weightage	449.28						
	Total	6065.28						
B	KSR8 4.6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work of vertical surface such as walls at any thickness, including attached pilasters, buttressess, plinth and string courses coat of all materials, labour complete as per specification (P: 15/4.31 PW,P & IWTD,B'lore Circle SR-2014-15)								
	centring								
	sides	1	3.60		0.10	0.36		
	8nn	~~1~~	~~1.20~~	~~0.00~~		~~0.72~~		
						1.08	292.68	~~316.09~~
	Basic Rate	271.00				0.36		105.40
	Add 8% Area weightage	21.68						
	Total	292.68						
C	KSR8 4.9.2: Providing T.M.T STEEL REINFORCEMENT FOR RCC work including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour HOM of machinery complete as per specifications. (P:19/4.48 PW,P & IWTD,B'lore Circle SR-2014-15)						tonne		
	steel					→ 0.889 kg/m.			
	main bars 12mm 100mm C/C spacing	1	7	1.10	0.89	6.85	6.85		
	0/st bars 12mm 100mm C/C spacing	1	(12)	0.5	0.89	5.87			
						12.72	12.72 kg		996.6
						(0.01)	78351.84	997.18	
	Basic Rate	72548.00				0.01272 MT		996.65	
	Add 8% Area weightage	5803.84							
	Total	78351.84							
						2137.14		1749.98	
	For 1 Sqm=	~~1749.98~~ / 0.72 =				2430.53		= 1538.74	
		1538.74		Say		2430.00	/ Sqm		

Rupees Two thousand One hundred only ₹2100.00 / Sqm

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